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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/816,133	03/31/2004	Hsieh Kun Lee		9644
25859 75	590 12/03/2004		EXAM	INER
WEI TE CHUNG			FLANIGAN, ALLEN J	
FOXCONN IN	TERNATIONAL, INC.			
1650 MEMOREX DRIVE			ART UNIT	PAPER NUMBER
SANTA CLARA, CA 95050			3753	

DATE MAILED: 12/03/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/816,133	LEE ET AL.			
Office Action Summary	Examiner	Art Unit			
	Allen J. Flanigan	3753			
The MAILING DATE of this communical Period for Reply	tion appears on the cover sheet w	ith the correspondence address			
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICA - Extensions of time may be available under the provisions of 3 after SIX (6) MONTHS from the mailing date of this communic - If the period for reply specified above is less than thirty (30) do - If NO period for reply is specified above, the maximum statuto - Failure to reply within the set or extended period for reply will, Any reply received by the Office later than three months after earned patent term adjustment. See 37 CFR 1.704(b).	ATION. 7 CFR 1.136(a). In no event, however, may a reation. ays, a reply within the statutory minimum of thir yry period will apply and will expire SIX (6) MON by statute, cause the application to become AE	reply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed of	on .				
3) Since this application is in condition for	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4) ⊠ Claim(s) 1-14 is/are pending in the app 4a) Of the above claim(s) is/are versions. 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-5,7-12 and 14 is/are rejected. 7) ⊠ Claim(s) 6 and 13 is/are objected to. 8) □ Claim(s) are subject to restriction.	withdrawn from consideration.				
Application Papers					
9) The specification is objected to by the E 10) The drawing(s) filed on is/are: a) Applicant may not request that any objection Replacement drawing sheet(s) including the	☐ accepted or b)☐ objected to n to the drawing(s) be held in abeyar e correction is required if the drawing	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) △ Acknowledgment is made of a claim for a) △ All b) □ Some * c) □ None of: 1. △ Certified copies of the priority dod 2. □ Certified copies of the priority dod 3. □ Copies of the certified copies of the application from the International * See the attached detailed Office action for the certified copies of the certified copies of the application from the International * See the attached detailed Office action for the certified copies of the certified co	cuments have been received. cuments have been received in A he priority documents have been Bureau (PCT Rule 17.2(a)).	pplication No received in this National Stage			
Attachment(s)					
1) X Notice of References Cited (PTO-892)	4) Interview S	Summary (PTO-413)			
Notice of Draftsperson's Patent Drawing Review (PTO- 3) Information Disclosure Statement(s) (PTO-1449 or PTO Paper No(s)/Mail Date	948) Paper No(s	s)/Mail Date nformal Patent Application (PTO-152)			

Claim 11 is objected to as containing a minor grammatical error ("densely arrangement").

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Hultmark et al.

Note heat dissipating member 18 with holes 26 defined therein, and heat conducting members 20 spacing member 18 from base 14.

Claims 2-5, 7-12, and 14 are rejected under 35 U.S.C. 102(b) as being anticipated by Feenstra.

Note in particular the Figs. 4 and 5 embodiments. The Fig. 4 embodiment is structurally very similar to applicant's disclosed embodiment (Fig. 2), with the large (6.3mm) diameter hole 110 forming a large opening exposing the lower end of tube 114 to ambient; the remaining semicylindrical portion adjacent the base 102 corresponds to the claimed "heat conducting member" or integrally formed "conducting members". Regarding claims 3-5, note the Fig. 5 embodiment, and note that Hultmark et al. indicate that flange 220 which extends perpendicular to the pipe (to thus extend parallel to the module cover of a component) can be replaced by tabs (lines 40-47 of column

for chimney effect cooling, the lower end by virtue of holes 110.

4). The disclosed module cover (to which flanges or tabs 220 are directly mounted) would read on the claimed "base". Regarding claim 10, the foundation 106 of tubes 104 provided with holes 110 of the Figs. 1-3 embodiment is readable on the claimed "conductive members". Clearly, both the upper and the lower end of tubes 104 are exposed to "an exterior" (ambient)

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Claims 6 and 13 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The remaining references show various tubular pin fin heat sink designs.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Allen J. Flanigan whose telephone number is (571) 272-4910. The examiner can normally be reached on M-F 9:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gene Mancene can be reached on (571) 272-4930. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

AJF

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Allen J. Flanigan Primary Examiner Art Unit 3753

Art Unit 375